

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION**

511 INNOVATIONS, INC.,

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Plaintiff,

Civil Action No. 3:15-cv-1525

V.

**MICROSOFT MOBILE INC.; MICROSOFT
MOBILE OY; MICROSOFT CORPORATION;
AVAGO TECHNOLOGIES U.S. INC.; and AVAGO
TECHNOLOGIES LIMITED,**

Civil Action No. 2:15-cv-1525

Defendants.

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ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT

COMES NOW Plaintiff 511 Innovations, Inc. (“511 Innovations”) and files this Original Complaint for Patent Infringement against Defendants Microsoft Mobile Inc. (formerly known as Nokia Inc.), Microsoft Mobile Oy, and Microsoft Corporation (collectively the “Microsoft Defendants”); and Avago Technologies U.S. Inc. and Avago Technologies Limited (collectively the “Avago Defendants”), alleging as follows:

I. NATURE OF THE SUIT

1. This is a claim for patent infringement arising under the patent laws of the United States, Title 35 of the United States Code.

II. THE PARTIES

2. Plaintiff **511 Innovations, Inc.** is a Texas corporation that maintains its principal place of business in Marshall, Texas.

3. Defendant **Microsoft Mobile Inc.** is a Delaware corporation that does business in Texas and maintains its principal place of business in Irving, Texas.

4. Defendant Microsoft Mobile Inc. is formerly known as Nokia Inc.

5. Defendant **Microsoft Mobile Oy** is a Finnish company that does business in Texas, directly or through intermediaries, and maintains its principal place of business in Espoo, Finland.

6. Defendant **Microsoft Corporation** is a Washington corporation that does business in Texas, directly or through intermediaries, and maintains its principal place of business in Redmond, Washington.

7. Defendant **Avago Technologies U.S. Inc.** is a Delaware corporation that does business in Texas, directly or through intermediaries, and maintains its principal place of business in San Jose, California.

8. Defendant **Avago Technologies Limited** is a Singapore company that does business in Texas, directly or through intermediaries, and maintains its principal place of business in Singapore.

III. JURISDICTION AND VENUE

9. This action arises under the patent laws of the United States, Title 35 of the United States Code. Thus, this Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).

10. This Court has general personal jurisdiction over Defendant Microsoft Mobile Inc. by virtue of Microsoft Mobile Inc. maintaining its principal place of business in this State.

11. This Court has specific personal jurisdiction over all Defendants pursuant to due process and the Texas Long Arm Statute because each Defendant, directly or through

intermediaries, has conducted and does conduct substantial business in this forum, such substantial business including but not limited to: (i) at least a portion of the infringements alleged herein; (ii) purposefully and voluntarily placing one or more infringing products or services into the stream of commerce with the expectation that they will be purchased by consumers in this forum; or (iii) regularly doing or soliciting business, engaging in other persistent courses of conduct, or deriving substantial revenue from goods and services provided to individuals in Texas and in this District.

12. Venue is proper in this Court under 28 U.S.C. §§ 1391(b)-(d) and 1400(b) for the reasons set forth above. Furthermore, venue is proper because each Defendant, directly or through intermediaries, sells and offers to sell infringing products to persons in this District, as discussed below. Each of Defendants' infringing acts in this District gives rise to proper venue.

IV. BACKGROUND

A. The Asserted Patents

13. This cause of action asserts infringement of United States Patent Nos. 7,110,096 B2; 7,397,541 B2; 8,472,012 B2; and 8,786,844 B2 (collectively, the "Asserted Patents").

14. A true and correct copy of United States Patent No. 7,110,096 B2 (the "'096 Patent"), entitled "Method for Determining Optical Characteristics Through a Protective Barrier," is attached hereto as Exhibit A.

15. 511 Innovations is the current owner by assignment of all rights, title, and interest in and under the '096 Patent, which duly and legally issued on September 19, 2006, with Wayne D. Jung, Russell W. Jung, and Alan R. Lauder milk [sic] as the named inventors. 511 Innovations has standing to sue for infringement of the '096 Patent.

16. A true and correct copy of United States Patent No. 7,397,541 B2 (the “’541 Patent”), entitled “Apparatus and Method for Measuring Optical Characteristics of an Object,” is attached hereto as Exhibit B.

17. 511 Innovations is the current owner by assignment of all rights, title, and interest in and under the ’541 Patent, which duly and legally issued on July 8, 2008, with Wayne D. Jung, Russell W. Jung, and Alan R. Loudermilk as the named inventors. 511 Innovations has standing to sue for infringement of the ’541 Patent.

18. A true and correct copy of United States Patent No. 8,472,012 B2 (the “’012 Patent”), entitled “Apparatus Having a First Optical Sensor Making a First Measurement to Detect Position and a Second Optical Sensor Making a Second Measurement,” is attached hereto as Exhibit C.

19. 511 Innovations is the current owner by assignment of all rights, title, and interest in and under the ’012 Patent, which duly and legally issued on June 25, 2013, with Wayne D. Jung, Russell W. Jung, and Alan R. Loudermilk as the named inventors. 511 Innovations has standing to sue for infringement of the ’012 Patent.

20. A true and correct copy of United States Patent No. 8,786,844 B2 (the “’844 Patent”), entitled “Apparatus for Measuring Optical Characteristics Including Position Detection,” is attached hereto as Exhibit D.

21. 511 Innovations is the current owner by assignment of all rights, title, and interest in and under the ’844 Patent, which duly and legally issued on July 22, 2014, with Wayne D. Jung, Russell W. Jung, and Alan R. Loudermilk as the named inventors. 511 Innovations has standing to sue for infringement of the ’844 Patent.

B. The Microsoft Defendants

22. The Microsoft Defendants, directly or through intermediaries, make, use, sell, or offer to sell within the United States, or import into the United States, mobile telephones, including but not limited to the Nokia Lumia 900 (the “Microsoft Accused Products”).

23. The Microsoft Defendants succeeded to all relevant assets, liabilities, and claims in relation to the acts alleged in this Complaint with respect to the Microsoft Accused Products as part of Defendant Microsoft Corporation’s acquisition of Nokia Corporation’s Devices and Services business.

24. The Microsoft Defendants, directly or through intermediaries, purposefully and voluntarily place the Microsoft Accused Products into the stream of commerce with the expectation that they will be purchased by consumers in this District.

25. The Microsoft Accused Products are sold and offered for sale in this District.

C. The Avago Defendants

26. The Microsoft Accused Products incorporate light sensors, including but not limited to APDS-990x sensors, that are made and/or sold, directly or through intermediaries, by the Avago Defendants (the “Avago Accused Products”).

27. By making and/or selling the Avago Accused Products for inclusion in the Microsoft Accused Products, the Avago Defendants, directly or through intermediaries, purposefully and voluntarily place the Avago Accused Products into the stream of commerce with the expectation that they will be purchased by consumers in this District.

D. JJL and Spectral Sensors

28. From July 27, 2007, through September 12, 2013, JJL Technologies, LLC (“JJL”) was the owner by assignment of the then-existing Asserted Patents and their families, including related then-pending applications.

29. JJL acquired the Asserted Patents and their families from LJ Laboratories LLC, an entity that had been formed to protect inventions resulting from research conducted by or on behalf of JJL.

30. JJL was a pioneer in low-cost, handheld color measurement and optical sensing technologies and products. JJL conceived, developed, produced, and sold its own products, which included world market-leading spectrophotometers for measuring teeth, skin, and other materials.

31. JJL’s inventions have resulted in over eighty patents throughout the world. These patents include systems and methods for measuring multiple optical properties and for detecting position through transparent barriers.

32. In 2013, JJL transferred its intellectual property, including the Asserted Patents and their families, to 511 Innovations, which in turn licensed that intellectual property to Spectral Sensors Inc. (“Spectral Sensors”), a Texas corporation having its principal place of business in Marshall, Texas, to continue research, development, and manufacturing of optical sensing products. Since that time, Spectral Sensors has conducted such activities in Marshall, Texas.

33. At all relevant times, JJL and Spectral Sensors have complied with the marking requirements set forth in 35 U.S.C. § 287.

V. CLAIMS – MICROSOFT DEFENDANTS

34. Based on the above-described services and products, 511 Innovations asserts several causes of action against the Microsoft Defendants. These causes of action are detailed as follows.

A. Infringement of the '096 Patent

35. The allegations of paragraphs 1-34 above are incorporated by reference as if fully set forth herein.

36. The Microsoft Accused Products are covered by at least claim 1 of the '096 Patent.

37. The Microsoft Defendants have directly infringed and continue to infringe at least claim 1 of the '096 Patent in violation of 35 U.S.C. § 271(a) by, directly or through intermediaries and without 511 Innovations's authority, making, using, selling, or offering to sell the Microsoft Accused Products in the United States, or importing the Microsoft Accused Products into the United States.

38. Further and in the alternative, at least since the filing and service of this Complaint, the Microsoft Defendants have been and now are actively inducing infringement of at least claim 1 of the '096 Patent in violation of 35 U.S.C. § 271(b). The Microsoft Defendants' inducements include, without limitation and with specific intent to encourage the infringement, knowingly inducing consumers to use the Microsoft Accused Products within the United States by supplying the Microsoft Accused Products to consumers within the United States and instructing such consumers how to use the Microsoft Accused Products, which the Microsoft Defendants know or should know infringe at least claim 1 of the '096 Patent.

39. Further and in the alternative, at least since the filing and service of this Complaint, the Microsoft Defendants have been and now are actively contributing to infringement of at least claim 1 of the '096 Patent in violation of 35 U.S.C. § 271(c). The Microsoft Defendants' contributions include, without limitation, offering to sell and/or selling within the United States, and/or importing into the United States, the Microsoft Accused Products, which constitute a material part of the invention recited in at least claim 1 of the '096 Patent, knowing the Microsoft Accused Products to be especially made or especially adapted for use in an infringement of at least claim 1 of the '096 Patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use.

B. Infringement of the '541 Patent

40. The allegations of paragraphs 1-39 above are incorporated by reference as if fully set forth herein.

41. The Microsoft Accused Products are covered by at least claim 1 of the '541 Patent.

42. The Microsoft Defendants have directly infringed and continue to infringe at least claim 1 of the '541 Patent in violation of 35 U.S.C. § 271(a) by, directly or through intermediaries and without 511 Innovations's authority, making, using, selling, or offering to sell the Microsoft Accused Products in the United States, or importing the Microsoft Accused Products into the United States.

43. Further and in the alternative, at least since the filing and service of this Complaint, the Microsoft Defendants have been and now are actively inducing infringement of at least claim 1 of the '541 Patent in violation of 35 U.S.C. § 271(b). The Microsoft Defendants' inducements include, without limitation and with specific intent to encourage the infringement,

knowingly inducing consumers to use the Microsoft Accused Products within the United States by supplying the Microsoft Accused Products to consumers within the United States and instructing such consumers how to use the Microsoft Accused Products, which the Microsoft Defendants know or should know infringe at least claim 1 of the '541 Patent.

44. Further and in the alternative, at least since the filing and service of this Complaint, the Microsoft Defendants have been and now are actively contributing to infringement of at least claim 1 of the '541 Patent in violation of 35 U.S.C. § 271(c). The Microsoft Defendants' contributions include, without limitation, offering to sell and/or selling within the United States, and/or importing into the United States, the Microsoft Accused Products, which constitute a material part of the invention recited in at least claim 1 of the '541 Patent, knowing the Microsoft Accused Products to be especially made or especially adapted for use in an infringement of at least claim 1 of the '541 Patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use.

C. Infringement of the '012 Patent

45. The allegations of paragraphs 1-44 above are incorporated by reference as if fully set forth herein.

46. The Microsoft Accused Products are covered by at least claim 1 of the '012 Patent.

47. The Microsoft Defendants have directly infringed and continue to infringe at least claim 1 of the '012 Patent in violation of 35 U.S.C. § 271(a) by, directly or through intermediaries and without 511 Innovations's authority, making, using, selling, or offering to sell the Microsoft Accused Products in the United States, or importing the Microsoft Accused Products into the United States.

48. Further and in the alternative, at least since the filing and service of this Complaint, the Microsoft Defendants have been and now are actively inducing infringement of at least claim 1 of the '012 Patent in violation of 35 U.S.C. § 271(b). The Microsoft Defendants' inducements include, without limitation and with specific intent to encourage the infringement, knowingly inducing consumers to use the Microsoft Accused Products within the United States by supplying the Microsoft Accused Products to consumers within the United States and instructing such consumers how to use the Microsoft Accused Products, which the Microsoft Defendants know or should know infringe at least claim 1 of the '012 Patent.

49. Further and in the alternative, at least since the filing and service of this Complaint, the Microsoft Defendants have been and now are actively contributing to infringement of at least claim 1 of the '012 Patent in violation of 35 U.S.C. § 271(c). The Microsoft Defendants' contributions include, without limitation, offering to sell and/or selling within the United States, and/or importing into the United States, the Microsoft Accused Products, which constitute a material part of the invention recited in at least claim 1 of the '012 Patent, knowing the Microsoft Accused Products to be especially made or especially adapted for use in an infringement of at least claim 1 of the '012 Patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use.

D. Infringement of the '844 Patent

50. The allegations of paragraphs 1-49 above are incorporated by reference as if fully set forth herein.

51. The Microsoft Accused Products are covered by at least claim 1 of the '844 Patent.

52. The Microsoft Defendants have directly infringed and continue to infringe at least claim 1 of the '844 Patent in violation of 35 U.S.C. § 271(a) by, directly or through intermediaries and without 511 Innovations's authority, making, using, selling, or offering to sell the Microsoft Accused Products in the United States, or importing the Microsoft Accused Products into the United States.

53. Further and in the alternative, at least since the filing and service of this Complaint, the Microsoft Defendants have been and now are actively inducing infringement of at least claim 1 of the '844 Patent in violation of 35 U.S.C. § 271(b). The Microsoft Defendants' inducements include, without limitation and with specific intent to encourage the infringement, knowingly inducing consumers to use the Microsoft Accused Products within the United States by supplying the Microsoft Accused Products to consumers within the United States and instructing such consumers how to use the Microsoft Accused Products, which the Microsoft Defendants know or should know infringe at least claim 1 of the '844 Patent.

54. Further and in the alternative, at least since the filing and service of this Complaint, the Microsoft Defendants have been and now are actively contributing to infringement of at least claim 1 of the '844 Patent in violation of 35 U.S.C. § 271(c). The Microsoft Defendants' contributions include, without limitation, offering to sell and/or selling within the United States, and/or importing into the United States, the Microsoft Accused Products, which constitute a material part of the invention recited in at least claim 1 of the '844 Patent, knowing the Microsoft Accused Products to be especially made or especially adapted for use in an infringement of at least claim 1 of the '844 Patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use.

VI. CLAIMS – AVAGO DEFENDANTS

55. Based on the above-described services and products, 511 Innovations asserts several causes of action against the Avago Defendants. These causes of action are detailed as follows.

A. Infringement of the '096 Patent

56. The allegations of paragraphs 1-55 above are incorporated by reference as if fully set forth herein.

57. The Avago Accused Products constitute a material part of the invention recited in at least claim 1 of the '096 Patent.

58. At least since the filing and service of this Complaint, the Avago Defendants know the Avago Accused Products to be especially made or especially adapted for use in an infringement of at least claim 1 of the '096 Patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use.

59. By making and/or selling the Avago Accused Products for inclusion in the Microsoft Accused Products, the Avago Defendants, directly or through intermediaries, have been and now are purposefully and voluntarily placing the Avago Accused Products into the stream of commerce with the expectation that they will be purchased by consumers in this District.

60. For these reasons, the Avago Defendants are actively contributing to infringement of at least claim 1 of the '096 Patent in violation of 35 U.S.C. § 271(c).

B. Infringement of the '541 Patent

61. The allegations of paragraphs 1-60 above are incorporated by reference as if fully set forth herein.

62. The Avago Accused Products constitute a material part of the invention recited in at least claim 1 of the '541 Patent.

63. At least since the filing and service of this Complaint, the Avago Defendants know the Avago Accused Products to be especially made or especially adapted for use in an infringement of at least claim 1 of the '541 Patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use.

64. By making and/or selling the Avago Accused Products for inclusion in the Microsoft Accused Products, the Avago Defendants, directly or through intermediaries, have been and now are purposefully and voluntarily placing the Avago Accused Products into the stream of commerce with the expectation that they will be purchased by consumers in this District.

65. For these reasons, the Avago Defendants are actively contributing to infringement of at least claim 1 of the '541 Patent in violation of 35 U.S.C. § 271(c).

C. Infringement of the '012 Patent

66. The allegations of paragraphs 1-65 above are incorporated by reference as if fully set forth herein.

67. The Avago Accused Products constitute a material part of the invention recited in at least claim 1 of the '012 Patent.

68. At least since the filing and service of this Complaint, the Avago Defendants know the Avago Accused Products to be especially made or especially adapted for use in an infringement of at least claim 1 of the '012 Patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use.

69. By making and/or selling the Avago Accused Products for inclusion in the Microsoft Accused Products, the Avago Defendants, directly or through intermediaries, have been and now are purposefully and voluntarily placing the Avago Accused Products into the stream of commerce with the expectation that they will be purchased by consumers in this District.

70. For these reasons, the Avago Defendants are actively contributing to infringement of at least claim 1 of the '012 Patent in violation of 35 U.S.C. § 271(c).

D. Infringement of the '844 Patent

71. The allegations of paragraphs 1-70 above are incorporated by reference as if fully set forth herein.

72. The Avago Accused Products constitute a material part of the invention recited in at least claim 1 of the '844 Patent.

73. At least since the filing and service of this Complaint, the Avago Defendants know the Avago Accused Products to be especially made or especially adapted for use in an infringement of at least claim 1 of the '844 Patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use.

74. By making and/or selling the Avago Accused Products for inclusion in the Microsoft Accused Products, the Avago Defendants, directly or through intermediaries, have been and now are purposefully and voluntarily placing the Avago Accused Products into the stream of commerce with the expectation that they will be purchased by consumers in this District.

75. For these reasons, the Avago Defendants are actively contributing to infringement of at least claim 1 of the '844 Patent in violation of 35 U.S.C. § 271(c).

VII. VICARIOUS LIABILITY

76. The allegations of paragraphs 1-75 above are incorporated by reference as if fully set forth herein.

77. In addition to liability for its own independent conduct, each Defendant is also liable for the conduct of its subsidiaries, affiliates, and related entities under the doctrines of alter ego and single business enterprise, and under applicable state and federal statutes and regulations.

VIII. NOTICE AND MARKING

78. The allegations of paragraphs 1-77 above are incorporated by reference as if fully set forth herein.

79. At all times, each and every patentee of the Asserted Patents, and each and every person making, offering for sale, or selling within the United States, or importing into the United States, any patented article for or under any of them, has complied with the marking requirements set forth in 35 U.S.C. § 287.

80. At least by filing and serving this Original Complaint for Patent Infringement, 511 Innovations has given each Defendant written notice of its infringement.

IX. DAMAGES

81. The allegations of paragraphs 1-80 above are incorporated by reference as if fully set forth herein.

82. For the above-described infringement, 511 Innovations has been injured and seeks damages to adequately compensate it for each Defendant's infringement of the Asserted Patents. Such damages, to be proved at trial, should be no less than the amount of a reasonable royalty under 35 U.S.C. § 284.

X. PRAYER FOR RELIEF

511 Innovations respectfully requests the following relief:

- a. A judgment in favor of 511 Innovations that each Defendant has infringed each of the Asserted Patents, whether literally or under the doctrine of equivalents, as described herein;
- b. A permanent injunction enjoining each Defendant, its respective officers, directors, agents, subsidiaries, employees, successors, and assigns, and all persons acting in privity, concert, or participation with it, from making, using, selling, or offering for sale in the United States, or importing into the United States, any and all products and services embodying the inventions claimed in the Asserted Patents;
- c. A judgment and order requiring each Defendant to pay 511 Innovations its damages, costs, expenses, and pre-judgment and post-judgment interest for each Defendant's infringement of the Asserted Patents as provided under 35 U.S.C. § 284, including supplemental damages for any continuing post-verdict or post-judgment infringement with an accounting as needed; and
- d. Such other and further relief as the Court deems just and proper.

XI. JURY DEMAND

Pursuant to Federal Rule of Civil Procedure 38(b), 511 Innovations requests a jury trial of all issues triable of right by a jury.

Dated: September 14, 2015

Respectfully Submitted,

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